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## Abstract

This relates to a current sensing unit based on the principle of the surface field measurement. For this, there are used Hall sensors (1) which are arranged such that they are excited by a magnetic field proportional to the current. Two Hall sensors are arranged such that they detect the field to be measured equally in absolute amount, but with opposite signs. The current measuring value is amplified by subtraction of the output signals from the Hall sensors, external interference is, however, eliminated.

(Fig. 2)